

## M 3.8, 6 km S of Gunica, Puerto Rico

Origin Time: 2023-10-07 19:52:45 UTC (Sat 15:52:45 local)

Location: 17.8607° N 66.9188° W Depth: 18.3 km

Created: 2 hours, 34 minutes after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

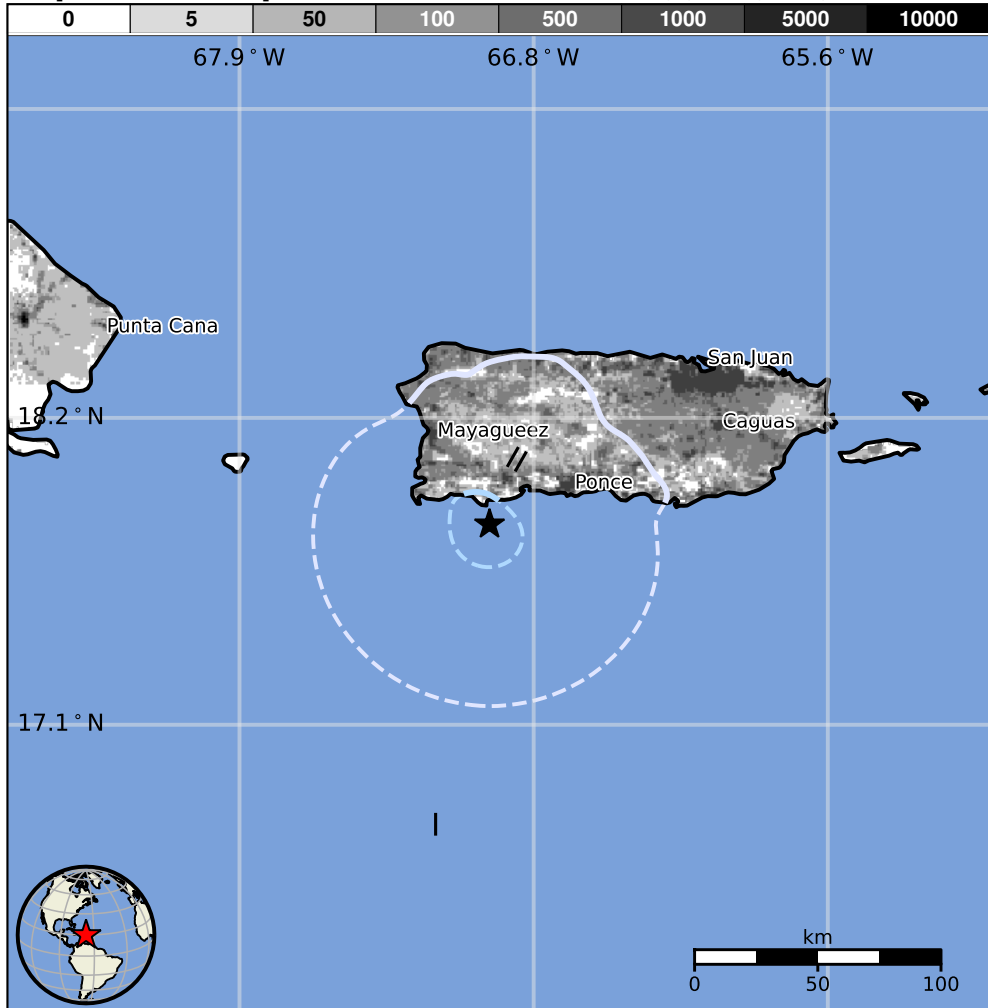


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		2,569k	990k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	228	6.6	VI(605k)	0
1980-11-12	333	5.9	VII(87k)	—
1984-06-24	259	6.7	VII(326k)	5

## Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Fuig	1k
III	La Parguera	1k
II	Guanica	9k
II	Pole Ojea	2k
II	Maria Antonia	1k
II	Palmarejo	1k
II	<b>Ponce</b>	<b>153k</b>
I	Bayamon	203k
I	Carolina	170k
I	<b>San Juan</b>	<b>418k</b>
I	Salvaleon de Higüey	124k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/pr2023280001#pager>

bold cities appear on map.

(k = x1000)

Event ID: pr2023280001